

IN THE CLAIMS:

1-11. (Cancelled)

12. (Currently Amended) The injector of claim 13 ~~[[1]]~~, further comprising a sensor adapted to read syringe information provided by an encoding device on a syringe.

13. (Currently Amended) An injector for injecting fluid from a syringe mounted thereon, the injector comprising:

a housing; and

a retaining mechanism associated with the housing for releasably connecting the syringe, the retaining mechanism being movable in a radial direction upon rotation of the syringe between a relaxed state, where the syringe is engaged by the retaining mechanism, and a tensioned state, where the syringe is released from the retaining mechanism,

wherein the retaining mechanism comprises a substantially elliptical, flexible ring.

14-15. (Canceled)

16. (Previously Presented) The injector of claim 13 wherein the retaining mechanism comprises a plurality of segments.

17. (Cancelled)

18. (Previously Presented) An injector for injecting fluid from a syringe mounted thereon, the injector comprising:

a housing;

a retaining mechanism associated with the housing for releasably connecting the syringe, the retaining mechanism being movable upon rotation of the syringe between a relaxed state, wherein the syringe is connected by the retaining mechanism, and a tensioned state, wherein the syringe is released from the retaining mechanism, wherein the retaining mechanism comprises a substantially elliptical, flexible ring; and  
a grooved, rotating ring operatively connected to the retaining mechanism, wherein rotation of the rotating ring manipulates the retaining mechanism from the relaxed state to the tensioned state.

19. (Previously Presented) The injector of claim 18 wherein the retaining mechanism comprises a substantially circular, flexible ring.

20. (Previously Presented) The injector of claim 18 wherein the retaining mechanism comprises a plurality of segments.

21-25. (Cancelled)

26. (New) The injector of claim 18, further comprising a sensor adapted to read syringe information provided by an encoding device on a syringe.

27. (New) An injector for injecting fluid from a syringe mounted thereon, the injector comprising:

a housing; and

a retaining mechanism associated with the housing for releasably connecting the syringe, the retaining mechanism being movable in a radial direction upon rotation of the syringe between a relaxed state, where the syringe is engaged by the retaining mechanism, and a tensioned state, where the syringe is released from the retaining mechanism,

wherein the retaining mechanism comprises a substantially circular, flexible ring.

28. (New) The injector of claim 27 wherein the retaining mechanism comprises a plurality of segments.

29. (New) The injector of claim 27 further comprising a sensor adapted to read syringe information provided by an encoding device on a syringe.